

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/540,494
Source: PCP/10
Date Processed by STIC: 7/1/05

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/540,494

DATE: 07/11/2005

TIME: 15:08:42

Input Set : A:\63628 Sequence Listing.txt
 Output Set: N:\CRF4\07112005\J540494.raw

3 <110> APPLICANT: Takeda Pharmaceutical Company Limited
 5 <120> TITLE OF INVENTION: Metastin Derivatives And Its Use
 7 <130> FILE REFERENCE: G05-0018
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/540,494
 C--> 9 <141> CURRENT FILING DATE: 2005-06-23
 9 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/016978
 10 <151> PRIOR FILING DATE: 2003-12-26
 12 <150> PRIOR APPLICATION NUMBER: JP 2002-377179
 13 <151> PRIOR FILING DATE: 2002-12-26
 15 <160> NUMBER OF SEQ ID NOS: 22
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 54
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
 23 Gly Thr Ser Leu Ser Pro Pro Pro Glu Ser Ser Gly Ser Arg Gln Gln
 24 1 5 10 15
 25 Pro Gly Leu Ser Ala Pro His Ser Arg Gln Ile Pro Ala Pro Gln Gly
 26 20 25 30
 27 Ala Val Leu Val Gln Arg Glu Lys Asp Leu Pro Asn Tyr Asn Trp Asn
 28 35 40 45
 29 Ser Phe Gly Leu Arg Phe
 30 50
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 162
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Homo sapiens
 37 <400> SEQUENCE: 2
 38 ggtacttctc tgtctccgccc gcccgaatct tctggttctc gtcagcagcc gggctctgtct 60
 39 gctccgcact ctcgtcagat cccggctccg cagggtgctg ttctggttca gcgtaaaaaa 120
 40 gacctgccga actacaactg gaactctttc ggtctcggtt tc 162
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 152
 44 <212> TYPE: PRT
 45 <213> ORGANISM: Mus musculus
 47 <400> SEQUENCE: 3
 48 Met Tyr Leu Arg Phe Gly Val Asp Val Cys Ser Leu Ser Pro Trp Lys 60
 49 5 10 15
 50 Glu Thr Val Asp Leu Pro Leu Pro Pro Arg Met Ile Ser Met Ala Ser 120
 51 20 25 30
 52 Trp Gln Leu Leu Leu Leu Cys Val Ala Thr Tyr Gly Glu Pro Leu 162
 53 35 40 45
 54 Ala Lys Val Ala Pro Gly Ser Thr Gly Gln Gln Ser Gly Pro Gln Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/540,494

DATE: 07/11/2005
TIME: 15:08:42

Input Set : A:\63628 Sequence Listing.txt
Output Set: N:\CRF4\07112005\J540494.raw

```

55      50          55          60
56 Leu Val Asn Ala Trp Glu Lys Glu Ser Arg Tyr Ala Glu Ser Lys Pro
57   65           70           75           80
58 Gly Ser Ala Gly Leu Arg Ala Arg Arg Ser Ser Pro Cys Pro Pro Val
59           85           90           95
60 Glu Gly Pro Ala Gly Arg Gln Arg Pro Leu Cys Ala Ser Arg Ser Arg
61           100          105          110
62 Leu Ile Pro Ala Pro Arg Gly Ala Val Leu Val Gln Arg Glu Lys Asp
63           115          120          125
64 Leu Ser Thr Tyr Asn Trp Asn Ser Phe Gly Leu Arg Tyr Gly Arg Arg
65           130          135          140
66 Gln Ala Ala Arg Ala Ala Arg Gly
67 145           150
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 456
71 <212> TYPE: DNA
72 <213> ORGANISM: Mus musculus
74 <400> SEQUENCE: 4
75 atgtatctga gatttggcgt ttagtgtctgc agcctgagtc ccttggaaaggaa gactgttagac 60
76 ctggcccttc ctccccagaat gatctcaatg gctttttggc agctgctgtct ttcctctgt 120
77 gtgcgccacct atggggagcc gctggcaaaa gtgaagcctg gatccacagg ccagcagtcc 180
78 ggacccccagg aactcgtaa tgccctggaa aaggaatcgc ggtatgcaga gagcaagcct 240
79 gggctctgcag ggctgcgcgc tcgttaggtcg tcgcctatgcc cgccgggttga gggcccccgc 300
80 gggcgccagc ggccccctgtg tgccctccgc agtcgcctga tccctgcgcc ccgcggagcg 360
81 gtgctgggtgc agcgggagaa ggacctgtcc acctacaact ggaactcctt cggcctgcgc 420
82 tacggcagga ggcaggcggc gcggggcagca cggggc 456
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 156
86 <212> TYPE: PRT
87 <213> ORGANISM: Mus musculus
89 <400> SEQUENCE: 5
90 Met Tyr Leu Arg Phe Gly Val Asp Val Cys Ser Leu Ser Pro Trp Lys
91           5           10           15
92 Glu Thr Val Asp Leu Pro Leu Pro Pro Arg Met Ile Ser Met Ala Ser
93           20          25           30
94 Trp Gln Leu Leu Leu Leu Cys Val Ala Thr Tyr Gly Glu Pro Leu
95           35          40           45
96 Ala Lys Val Ala Pro Leu Val Lys Pro Gly Ser Thr Gly Gln Gln Ser
97           50          55           60
98 Gly Pro Gln Glu Leu Val Asn Ala Trp Glu Lys Glu Ser Arg Tyr Ala
99   65           70           75           80
100 Glu Ser Lys Pro Gly Ser Ala Gly Leu Arg Ala Arg Arg Ser Ser Pro
101           85          90           95
102 Cys Pro Pro Val Glu Gly Pro Ala Gly Arg Gln Arg Pro Leu Cys Ala
103           100         105           110
104 Ser Arg Ser Arg Leu Ile Pro Ala Pro Arg Gly Ala Val Leu Val Gln
105           115         120           125
106 Arg Glu Lys Asp Leu Ser Thr Tyr Asn Trp Asn Ser Phe Gly Leu Arg
107           130         135           140

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/540,494

DATE: 07/11/2005
TIME: 15:08:42

Input Set : A:\63628 Sequence Listing.txt
Output Set: N:\CRF4\07112005\J540494.raw

108 Tyr Gly Arg Arg Gln Ala Ala Arg Ala Ala Arg Gly
109 145 150 155
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 468
113 <212> TYPE: DNA
114 <213> ORGANISM: Mus musculus
116 <400> SEQUENCE: 6
117 atgtatctga gatttggcgt tgatgtctgc agcctgagtc ccttggaaagga gactgttagac 60
118 ctgccccttc ctcccagaat gatctcaatg gcttcttggc agctgctgtctgt 120
119 gtcgccacccat atggggagcc gctggcaaaa gtggcacctt tggtaagcc tggatccaca 180
120 ggccagcagt ccggacccca ggaactcggtt aatggctggg aaaaggaaatc gcggtatgca 240
121 gagagcaagc ctgggtctgc agggctgccc gctcgtaggt cgtcgcctatg cccgcgggtt 300
122 gaggggcccg cggggcgcca gcgccccctg tgtgcctccc gcagtcgcct gatccctgcg 360
123 ccccgccggag cggtgctggcgtt gcagcgggag aaggacctgtt ccacctacaa ctggaaactcc 420
124 ttccggcctgc gctacggcag gaggcaggcgcg gcgccggcag cacggggc 468
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 130
128 <212> TYPE: PRT
129 <213> ORGANISM: Rattus sp.
131 <400> SEQUENCE: 7
132 Met Thr Ser Leu Ala Ser Trp Gln Leu Leu Leu Leu Cys Val Ala
133 5 10 15
134 Ser Phe Gly Glu Pro Leu Ala Lys Met Ala Pro Val Val Asn Pro Glu
135 20 25 30
136 Pro Thr Gly Gln Gln Ser Gly Pro Gln Glu Leu Val Asn Ala Trp Gln
137 35 40 45
138 Lys Gly Pro Arg Tyr Ala Glu Ser Lys Pro Gly Ala Ala Gly Leu Arg
139 50 55 60
140 Ala Arg Arg Thr Ser Pro Cys Pro Pro Val Glu Asn Pro Thr Gly His
141 65 70 75 80
142 Gln Arg Pro Pro Cys Ala Thr Arg Ser Arg Leu Ile Pro Ala Pro Arg
143 85 90 95
144 Gly Ser Val Leu Val Gln Arg Glu Lys Asp Met Ser Ala Tyr Asn Trp
145 100 105 110
146 Asn Ser Phe Gly Leu Arg Tyr Gly Arg Arg Gln Val Ala Arg Ala Ala
147 115 120 125
148 Arg Gly
149 130
151 <210> SEQ ID NO: 8
152 <211> LENGTH: 390
153 <212> TYPE: DNA
154 <213> ORGANISM: Rattus sp.
156 <400> SEQUENCE: 8
157 atgaccctcg tggcttcttg gcagctgctg ctttcctct gtgtggcctc ttttggggag 60
158 ccactggcaa aaatggcacc tgggttggaaac cctgaacccca caggccaaaca gtcggacc 120
159 caggaactcg ttaatgcctg gcaaaaggcc cccgggtatg cagagagcaa gcctggggct 180
160 gcaggactgc gcgctcgcccg aacatcgcca tggccgcgg tggagaaccc cacggggcac 240
161 cagcggccccc cgtgtgccac ccgcagtcgc ctgatccctg cggcccgccg atcgggtgctg 300
162 gtgcagcgcg agaaggacat gtcagcctac aactggaaact ctttggcct gcgctacggc 360

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/540,494

DATE: 07/11/2005
TIME: 15:08:42

Input Set : A:\63628 Sequence Listing.txt
Output Set: N:\CRF4\07112005\J540494.raw

163	aggaggcagg	tggcgccggc	ggcacggggc	390
165	<210>	SEQ ID NO:	9	
166	<211>	LENGTH:	398	
167	<212>	TYPE:	PRT	
168	<213>	ORGANISM:	Homo sapiens	
170	<400>	SEQUENCE:	9	
171	Met His Thr Val Ala Thr Ser Gly Pro Asn Ala Ser Trp Gly Ala Pro			
172	5	10	15	
173	Ala Asn Ala Ser Gly Cys Pro Gly Cys Gly Ala Asn Ala Ser Asp Gly			
174	20	25	30	
175	Pro Val Pro Ser Pro Arg Ala Val Asp Ala Trp Leu Val Pro Leu Phe			
176	35	40	45	
177	Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile			
178	50	55	60	
179	Tyr Val Ile Cys Arg His Lys Pro Met Arg Thr Val Thr Asn Phe Tyr			
180	65	70	75	80
181	Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val			
182	85	90	95	
183	Pro Phe Thr Ala Leu Leu Tyr Pro Leu Pro Gly Trp Val Leu Gly Asp			
184	100	105	110	
185	Phe Met Cys Lys Phe Val Asn Tyr Ile Gln Gln Val Ser Val Gln Ala			
186	115	120	125	
187	Thr Cys Ala Thr Leu Thr Ala Met Ser Val Asp Arg Trp Tyr Val Thr			
188	130	135	140	
189	Val Phe Pro Leu Arg Ala Leu His Arg Arg Thr Pro Arg Leu Ala Leu			
190	145	150	155	160
191	Ala Val Ser Leu Ser Ile Trp Val Gly Ser Ala Ala Val Ser Ala Pro			
192	165	170	175	
193	Val Leu Ala Leu His Arg Leu Ser Pro Gly Pro Arg Ala Tyr Cys Ser			
194	180	185	190	
195	Glu Ala Phe Pro Ser Arg Ala Leu Glu Arg Ala Phe Ala Leu Tyr Asn			
196	195	200	205	
197	Leu Leu Ala Leu Tyr Leu Leu Pro Leu Leu Ala Thr Cys Ala Cys Tyr			
198	210	215	220	
199	Ala Ala Met Leu Arg His Leu Gly Arg Val Ala Val Arg Pro Ala Pro			
200	225	230	235	240
201	Ala Asp Ser Ala Leu Gln Gly Gln Val Leu Ala Glu Arg Ala Gly Ala			
202	245	250	255	
203	Val Arg Ala Lys Val Ser Arg Leu Val Ala Ala Val Val Leu Leu Phe			
204	260	265	270	
205	Ala Ala Cys Trp Gly Pro Ile Gln Leu Phe Leu Val Leu Gln Ala Leu			
206	275	280	285	
207	Gly Pro Ala Gly Ser Trp His Pro Arg Ser Tyr Ala Ala Tyr Ala Leu			
208	290	295	300	
209	Lys Thr Trp Ala His Cys Met Ser Tyr Ser Asn Ser Ala Leu Asn Pro			
210	305	310	315	320
211	Leu Leu Tyr Ala Phe Leu Gly Ser His Phe Arg Gln Ala Phe Arg Arg			
212	325	330	335	
213	Val Cys Pro Cys Ala Pro Arg Arg Pro Arg Arg Pro Arg Pro Gly			

RAW SEQUENCE LISTING DATE: 07/11/2005
 PATENT APPLICATION: US/10/540,494 TIME: 15:08:42

Input Set : A:\63628 Sequence Listing.txt
 Output Set: N:\CRF4\07112005\J540494.raw

214	340	345	350	
215	Pro Ser Asp Pro Ala Ala Pro His Ala Glu Leu His Arg Leu Gly Ser			
216	355	360	365	
217	His Pro Ala Pro Ala Arg Ala Gln Lys Pro Gly Ser Ser Gly Leu Ala			
218	370	375	380	
219	Ala Arg Gly Leu Cys Val Leu Gly Glu Asp Asn Ala Pro Leu			
220	385	390	395	
222	<210> SEQ ID NO: 10			
223	<211> LENGTH: 1194			
224	<212> TYPE: DNA			
225	<213> ORGANISM: Homo sapiens			
227	<400> SEQUENCE: 10			
228	atgcacacccg tggctacgtc cggacccaac gcgtcctggg gggcacccggc caacgcctcc	60		
229	ggctgcccgg gctgtggcgcaaacgcctcg gacggcccaag tcccttcgcccgcggccgtg	120		
230	gacgcctggc tcgtgccgtcttcttcgcccgcgtatgc tgctgggcct ggtggggaaac	180		
231	tgcgtgtca tctacgtcat ctgccgcac aagccgtatgc ggaccgtgac caacttctac	240		
232	atgcccaacc tggcgccac ggacgtgacc ttccctctgt gctgcgtccc cttcacggcc	300		
233	ctgctgtacc cgctgcccgg ctgggtgtccggcacttca tgtcaagt cgtcaactac	360		
234	atccagcagg tctcggtgca ggccacgtgt gccactctga cccatgag tggaccgc	420		
235	tggtaatgtatcggttccccgttgcgcgcctgcaccgcgcgcgtgc	480		
236	gctgtcagcc tcagcatctg gtaggcgtct gccggcggtgt ctgcgcggcgt gctgcgcctg	540		
237	caccgcctgt caccggggcc ggcgcctac tgcagtgagg cttcccccag ccgcgcctg	600		
238	gagcgcgcct tcgcactgtcaaacctgtgc ggcgtgtacc tgctgcgcgt gctgcgcacc	660		
239	tgcgcctgtatgcggccat gctgcgcac ctggggccggg tgcgcgtgcgc cccgcgcgc	720		
240	gccgatagcg ccctgcagggg gaggtgtccgc gcaagagcgcg caggcgcgt gcgggccaag	780		
241	gtctcgccgc tggtggccgc cgtggccctgc tcttcgcgcgcgtgcgtggg cccatccag	840		
242	ctgttcctgg tgctgcaggc gctggccccc gcgggcctt ggcacccacg cagctacgcc	900		
243	gcctacgcgc ttaagacctg ggctcaactgc atgtcctaca gcaactcgc gctgaacccg	960		
244	ctgctctacgc cttcctggg ctgcacttc cgacaggcct tccgcgcgt ctgcgcctgc	1020		
245	gcgcgcgcgc gccccgcgcg ccccccgcgg cccggaccct cggaccgcgc agccccacac	1080		
246	gcggagctgc accgcctggg gtcccaccccg gccccgcaca gggcgcagaa gccaggggagc	1140		
247	agtgggctgg ccgcgcgcgg gctgtgcgtc ctgggggagg acaacgcaccc tctc	1194		
249	<210> SEQ ID NO: 11			
250	<211> LENGTH: 396			
251	<212> TYPE: PRT			
252	<213> ORGANISM: Rattus sp.			
254	<400> SEQUENCE: 11			
255	Met Ala Ala Glu Ala Thr Leu Gly Pro Asn Val Ser Trp Trp Ala Pro			
256	5	10	15	
257	Ser Asn Ala Ser Gly Cys Pro Gly Cys Gly Val Asn Ala Ser Asp Gly			
258	20	25	30	
259	Pro Gly Ser Ala Pro Arg Pro Leu Asp Ala Trp Leu Val Pro Leu Phe			
260	35	40	45	
261	Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile			
262	50	55	60	
263	Phe Val Ile Cys Arg His Lys His Met Gln Thr Val Thr Asn Phe Tyr			
264	65	70	75	80
265	Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val			
266	85	90	95	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/11/2005
PATENT APPLICATION: US/10/540,494 TIME: 15:08:43

Input Set : A:\63628 Sequence Listing.txt
Output Set: N:\CRF4\07112005\J540494.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:15,16,17,18

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/540,494

DATE: 07/11/2005
TIME: 15:08:43

Input Set : A:\63628 Sequence Listing.txt
Output Set: N:\CRF4\07112005\J540494.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date